

EMPLOYMENT OPPORTUNITY ANNOUNCEMENT

DEPARTMENTS OF THE ARMY AND AIR FORCE  
OFFICE OF THE ADJUTANT GENERAL  
NORTH CAROLINA NATIONAL GUARD  
HUMAN RESOURCES OFFICE  
4105 REEDY CREEK ROAD  
RALEIGH, NORTH CAROLINA 27607-6410

ANNOUNCEMENT #: ANG 05-2004

OPENING DATE: 06 February 2004

CLOSING DATE: 08 March 2003

ANTICIPATED FILL DATE: 04 April 2004

POSITION TITLE AND NUMBER:

Aircraft Engine Mechanic (Propeller)  
PDCN: 80218000

UNIT/ACTIVITY AND DUTY LOCATION:

145<sup>th</sup> Maintenance Squadron,  
NCANG, Charlotte, NC

GRADE AND SALARY:

TECH - WG-8602-10 \$16.36 - \$19.15 per hour

EMPLOYMENT STATUS:

Excepted Service

WHO CAN APPLY: The area of consideration for this position is STATEWIDE. Applications will only be accepted from current military members of the North Carolina Air National Guard and individuals who are eligible and willing to enlist in the North Carolina Air National Guard.

HOW TO APPLY: TECHNICIAN: Applicants interested in the technician position may apply by submitting an Application for Federal Employment (Standard Form 171), Optional Application for Federal Employment (Optional Form 612), resume or any other form of application. It is required that the Knowledge, Skills and Abilities (KSA) listed below be addressed and attached to the application.

NOTE: Information that must be provided when applying for a technician position is as follows: announcement number; name; address; telephone number; social security number; date of birth; citizenship; education; work experience; and other job-related qualifications.

Applications must be sent to: North Carolina National Guard, ATTN: OTAGNC-HRO, 4105 Reedy Creek Road, Raleigh, NC 27607-6410, to be received not later than the close of business on the above indicated closing date.

QUALIFICATION REQUIREMENT: TECHNICIAN: Must have 12 months specialized experience for WG-08 or 18 months for WG-10 which demonstrates that the applicant has acquired the below listed KSA's. AGR: Must possess or be eligible for award of AFSC listed under "MILITARY ASSIGNMENT" on page 2 of this announcement. Education may be substituted for experience when applicable and the appropriate transcripts are submitted with application.

KNOWLEDGE, SKILLS & ABILITIES (KSA'S)

Below are listed the KSA's for this position. Each technician applicant must address each KSA individually in paragraph format by explaining any civilian and military work experience (with dates) that provided that KSA. These comments must be addressed in the order they appear below and attached to the application when applying for the position. Applications must reflect duties and responsibilities of positions/jobs addressed. This must be on the application/resume. The KSA's must be addressed on a separate sheet of paper. Failure to include attachment of the KSA Statement will result in your application not being considered for employment. ASSISTANCE IN COMPLETING THE KSA STATEMENT MAY BE OBTAINED BY CALLING 704/391-4169.

1. Knowledge of aircraft engine parts and components and how they function.
2. Ability to check aircraft engine components for cracks, dents, security of attachments, servicing, leakage, foreign matter, clearances, deformation, and proper safeties.
3. Ability to detect wear patterns of aircraft engines components.
4. Ability to determine if disassembled parts are reusable.
5. Ability to disassemble, repair, rework and modify aircraft engines and components in accordance with prescribed procedures in TMs and other directives.
6. Knowledge of aircraft engine disassembly practices.
7. Ability to determine repair procedures necessary to correct defective components.
8. Ability to assemble aircraft engines, adhering to prescribed procedures, torque valves, safety methods, and clearances.
9. Ability to record and maintain test data on appropriate log sheets.

CONDITION OF EMPLOYMENT: Occupants of this position must maintain continuous military membership in the North Carolina Air National Guard (NCANG). NCANG status (military grade, DAFSC, military unit) and experience must be entered on the application. The recommended applicant will not be approved for appointment until they occupy a compatible AFSC in the NCANG shown under Military Assignment on the reverse side of this announcement. The applicant selected for this position will be required to participate in the Direct Deposit/Electronic Fund Transfer Program. The recommended applicant will not be approved for promotion/appointment until the appropriate physical examination is completed.

MILITARY ASSIGNMENT: Assignment in a compatible Enlisted position in the NCANG.  
AFSC: 2A6X1. AGR GRADE: Not to exceed MSGT/E-7.

**EVALUATION FACTORS USED:** Personal interviews, review of application and the KSA Statement. (KSA statement will be evaluated by the Personnel Staffing Specialist to determine minimum qualifications and by the interview panel to determine the best qualified.)

**PRINCIPAL DUTIES AND RESPONSIBILITIES:**

Removes, installs, inspects, repairs, modifies, overhauls, and installs turboprop engines, reduction gear boxes, turbine modules, compressor modules, auxiliary power units, propellers and related propeller components as required. Performs maintenance on all propulsion systems including troubleshooting and diagnosing defects, inspecting, conducting bench checks, performing in-shop and on-equipment repairs and overhauls. Diagnoses unusual malfunctions using computerized test equipment, schematic diagrams, technical publications and performs the appropriate repair according to the test results and analysis. Determines the extent of disassembly necessary to repair, overhaul, replace and inspect all engine, propeller and auxiliary power unit parts. Cleans and inspects engine and propeller component parts such as turbines, gear boxes, blades, gears, bearings, etc. Assembles engines, propellers and auxiliary power units, adhering to prescribed procedures, torque values, safety methods and clearances. Tests propellers using electric and hydraulic test stands to check for proper operation and evidence of oil leakage. Operationally checks engines and propeller assemblies and auxiliary power units by using the engine test cell facility to meet all full power run checks on the engine and propeller assemblies and auxiliary power units. Modifies engines, propellers, auxiliary power units, and components in accordance with Time Compliance Technical Order (TCO) directives; removes and installs quick engine change kits; prepares engines for installation and installs engine and propeller assemblies on aircraft. Advises on technical problems of repair, overhaul, modification and installation of aircraft propulsion systems. Solves unusual maintenance problems and performs bench checks and test engine and propeller assemblies for serviceability. Performs operational checks of installed propellers, engines, auxiliary power units and sub-systems during aircraft maintenance ground runs in accordance with approved checklists. Employs test equipment such as computer borescope, fuel gauges, air gauges and alignment fixtures. Utilizes special tools and precision measuring equipment, high pressure hydraulic test equipment, and electronic test equipment. Performs isochronal and special inspections on engines, propellers and auxiliary power units. Interprets inspection findings and determines adequacy of corrective action. Inspects installed and repaired engines for compliance with technical publications. Evaluates justification for unsatisfactory inspection reports and practicability of proposed modifications. Performs fixed and proposed modifications. Performs fixed and mobile test stand functions (which may include maintenance of engine test cell facility); installs special test equipment; performs pre-operational and post operational checks. Operates engines and propellers and records test data. Operates, inspects, and maintains computerized engine test/trim automated systems (ETTAS) on the engine test cell. Evaluates, identifies and corrects propeller and engine components causing vibration or impending failure using the ETTAS system, and vibration analyzer. Evaluates engine and propeller performance by computing engine torque, specific fuel consumption. Monitors engine RPM and turbine inlet temperatures. Evaluates engine and propeller performance and accepts or rejects the individual components. Removes engine and propeller from test stand and prepares units for aircraft installation or storage. Accomplishes operator maintenance on aircraft and engine sound suppresser facility, test stands and various pieces of ground equipment including the auxiliary power unit test cell. Performs dynamic propeller balancing and tests the propeller integrated synchrophasing. Must also test variable potentiometers, servo motors, indicators and aircraft wiring. Performs aircraft full power runs and complete engine and propeller efficiency checks. Taxis aircraft in accordance with applicable directives. Clears Red X documentation on engine and propeller related components. Prepares man-hour data collection and required forms for input into the Core Automated Maintenance System. Reviews and assists in maintaining T.O.'s and other technical publications and directives pertinent to the section. Maintains bench stock, materials, parts, and equipment. Assists material control function in identifying part numbers and stock numbers for processing and controlling of repair cycle assets. Provides on-the-job training for assigned personnel. Plans and conducts formal classes of instruction in techniques of repair and maintenance of aircraft engine, propeller, auxiliary power unit, and related equipment and in the use of diagrams, blueprints, wiring schematics and technical publications. Evaluates effectiveness of training by observation and through written and oral examinations. Advises supervisors of experience and skill level of assigned personnel. Maintains training documentation. Prepares for and participates in various types of readiness evaluations such as Operational Readiness Inspections, Inspector General and Unit Evaluation Inspections, mobility, and command support Readiness Inspections, mobility, and command support exercises. May be required to perform such additional duties as structural fire fighting, aircraft fire/rescue duty, security guard, snow removal, munitions loading and handling, heavy equipment operator, maintenance of facilities and equipment, or serve as a member of a team to cope with natural disasters or civil emergencies. May be required to travel in military aircraft and drive military vehicles. May be required to participate in various periods of temporary duty away from place of assignment. Performs other duties as assigned.

**INSTRUCTIONS TO COMMANDERS/SUPERVISORS:** This position vacancy announcement will be given the broadest possible dissemination. A copy of this announcement will be posted to your unit/activity bulletin board.

**ADDITIONAL INSTRUCTIONS:**

1. Applicants are requested to identify, on a separate sheet of paper, their race and national origin from one of the following categories: Male or female; American Indian or Alaskan native; Asian or Pacific Islander; Black, not of Hispanic origin; Hispanic; white, not of Hispanic origin. Submission of this information is voluntary and will be used in support of the NCNG Equal Employment and Affirmative Action Programs.
2. An initial, and periodic medical examination may be required for jobs located in working areas which have a high exposure risk to conditions which may result in occupational illness or injury.
3. Participants in the Selected Reserve Incentive Program will be administered as prescribed by NGB Pamphlet 600-15.
4. A permanent change of station (PCS) will not be authorized for the individual selected for this position unless agreed upon in advance by HRO and a PCS order is prepared prior to effective date.
5. Males born on or after 1 January 1960 must be registered with the Selective Service in order to be considered for federal employment.

**DISTRIBUTION:**

A, B-3, C-3, G-25, H-3, J-3, K-3, M, N-12, P-9, Q, W-2, Y-2, R: HRO-20, AGAV-1, AGCS-3, DCSANG-1, DCSLOG/G4-4, DCSOI-3, DCSPER-3, FMCB-2, IG-1, SCSM-1, SRAA-1, VCSOP-1